ABSTRACT OF THE DISCLOSURE

The invention relates to a piezoelectric single crystal element which is provided with electrodes on at least one face or on opposing faces and is excitable to produce a thickness shear vibration. In accordance with the invention the single crystal element has a crystal cut with a fundamental resonance frequency excitable in the thickness shear mode, in which the effective electromechanical coupling factor k_{eff} is between 0.05% and 3%, and preferably, between 0.1% and 2%. This allows resonators with a high quality factor to be produced.